

WHAT IS CLAIMED IS:

1. An idle speed control apparatus in a throttle body comprising:

a throttle body 1 in which an intake passage 2 is, the intake passage is opened and closed by a throttle valve 4 attached to a rotatably supported throttle valve shaft 3, and a throttle valve lever 5 operated by a driver is provided in an end portion of the throttle valve shaft 3;

a link apparatus L in which a cam lever 10 is attached to one end of a rotatably supported link shaft 9, and a link lever 11 is attached to another end of the link shaft; and

a stepping motor M in which a rotation of a rotor is converted into a linear motion toward the outside by a slider 12 so as to be output,

wherein the linear motion of the slider 12 of the stepping motor is transmitted as a rotational motion of the link shaft 9 via the link lever 11, and a low opening degree rotational position of the throttle valve lever 5 is controlled in correspondence to the rotation of the cam lever 10 rotating in synchronization with the link shaft 9.

2. An idle speed control apparatus in a throttle body as claimed in claim 1, wherein an end portion of the slider is elastically clamped to the link lever 11 by

a nut 13 and a collar 14 pressed by a spring 16.

3. An idle speed control apparatus in a throttle body as claimed in claim 1, wherein the link lever is formed in an arc shape, an outer side surface 14A of the collar 14 formed in an arc shape is arranged so as to be brought into contact with an arc shaped inner side surface 11B of the link lever 11, and a radius R14 of the arc shape of the collar 14 is made smaller than a radius R11 of the arc shape of the link lever 11.

4. An idle speed control apparatus in a throttle body as claimed in claim 1, wherein two intake passages 2, 2 are provided in a side portion of the throttle body, two fuel injection valves J clamped by a fuel distribution pipe D and the throttle body 1 are arranged in the throttle body toward the respective intake passages 2, 2, and the stepping motor is arranged in a side space K formed between two fuel injection valves J, J.